Notice of Allowability	Application No.	Applicant(s)
	10/787,367	GRAUPE ET AL.
	Examiner	Art Unit
	Janet L. Coppins	1626
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the telephone conversation with Applicants' attorney of 10/27/06.		
2. The allowed claim(s) is/are 1-10,12,13 and 15, renumbered as 1-13.		
3.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P. 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e

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DETAILED ACTION

1. Claims 1-10, 12, 13, and 15 are currently pending in the instant application.

Response to After-Final Amendment

- 2. Receipt is acknowledged of Applicants' After-Final Amendment, filed August 17, 2006, which has been entered of record in the file. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 3. Accordingly, claims 10 and 12 have been amended.

Claim Rejections - 35 USC § 112

- 4. Claim 12 previously rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In view of Applicants' amendatory changes, the Examiner withdraws the rejections to the claims.
- 5. Claim 10 previously rejected under 35 U.S.C., first paragraph, as not being fully enabled. In view of Applicants' amendment and the Examiner's Amendment, see below, the rejection is withdrawn.

EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

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Authorization for this examiner's amendment was given in a telephone interview with Peter Butch, Reg. No. 32,203, on October 27, 2006.

The application has been amended as follows:

a) Claim 10, line 1, please delete the following diseases: "AIDS," and "AIDS-related complexes," in line 2, "Alzheimer's disease," in lines 3-4, "breast, ovarian, prostate, lung, bone, throat, brain, testicular, liver, stomach, or pancreatic cancer," and in line 10, "melanoma," and "multiple sclerosis,".

Reasons for Allowance

7. Claims 1-10, 12, 13, and 15 are allowable, as newly renumbered claims 1-13. The following is an examiner's statement of reasons for allowance:

This invention relates to novel sulfonamide compounds, their methods of use, and their processes of preparation. The compounds of the instant invention are cysteine protease inhibitors, namely Cathepsin S inhibitors, of Formula I of claim 1. Compounds that selectively inhibit the activity of proteases are known, however the instant claimed compounds according to formula I, wherein the "X³" moiety is piperidine according to Formula (a), are novel and unobvious. The allowable subject matter in this case is limited to compounds, methods of use, and a process for preparing said compounds according to formula I. The closest prior art of record, U.S. 5,672,583 to Chapman et al, teach similar sulfonamide compounds. However, the '583 patent fails to teach or render obvious the same compounds as instantly claimed, their methods of use, and do not fairly suggest their processes of preparation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Telephone Inquiry

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Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Janet L. Coppins whose telephone number is 571.272.0680. The examiner can normally be

reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor,

Joseph K. McKane can be reached on 571.272.0699. The fax phone number for the organization where

this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Janet L. Coppins October 30, 2006

> Joseph K. McKane SPE, Art Unit 1626

AM M. M. SHAMEEM. PH.D

PRIMARY EXAMINER